

PROCEEDINGS OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON

SERIES C. JOURNAL OF MEETINGS

VOLUME 17.

No. 8, 1952

ORDINARY MEETING

WEDNESDAY, 5TH NOVEMBER, 1952, at 5.0 p.m.

AGENDA

1. Confirmation of the Proceedings of the Ordinary Meeting held on 1st October, 1952.
2. Recommendations of candidates for Fellowship.
3. Announcement of election of new Fellows.
4. Proposed amendment of the Bye-laws: Special Meeting to be held on 5th November, 1952. Third reading.
5. Additions to the Library. [See page 42.]
6. Nomination of Officers and Council for 1953.
7. Admission of Fellows.

|| Any Fellow who has not been formally admitted to the Society under Chapter XIV, Section 4 of the Bye-laws and attends the meeting on 5th November, 1952, is requested to inform the Secretary before 4.45 p.m. on that date.

8. Papers accepted for publication in the *Transactions*.
9. Communications.

As already announced the meeting will be devoted to small exhibits of special interest requiring only short explanations.

Brief written notes on these exhibits, suitable for publication in these *Proceedings*, should reach the Hon. Secretary by **Saturday, 1st November**.

The Ordinary Meeting will be followed immediately by the Special Meeting announced overleaf

TEA will be served in the Library before the meeting (from 4.30 p.m).

SPECIAL MEETING.

WEDNESDAY, 5TH NOVEMBER, 1952,

The meeting will open immediately after the conclusion of the Ordinary Meeting.

AGENDA.

1. Notice summoning the Special Meeting.
2. Proposed alterations to the Bye-laws.

The proposed amendments to the Bye-laws (pages 35-36 of these *Proceedings*) have been read at three Ordinary Meetings. Their adoption will be moved from the Chair on behalf of Council.

Serial Publications in the Library of the Royal Entomological Society of London.

A list of the special publications in the Society's Library, with the titles abbreviated in accordance with the *World List of Scientific Periodicals*, has now been prepared. Copies may be obtained in the Society's office, price (to Fellows) 3s. 9d.

PROCEEDINGS OF THE ORDINARY MEETING HELD ON 1ST OCTOBER, 1952.

Mr. N. D. RILEY, C.B.E., President, in the Chair.

Present 88 Fellows and 38 Visitors.

The minutes of the Ordinary Meeting held on 2nd July, 1952, were confirmed and signed by the President.

The President announced that Her Majesty the Queen had been graciously pleased to grant her patronage to the Society. This was received with acclamation.

The names of the following candidates for election were read for the first time : Mr. Reginald Lousada Barrow ; Professor Lewis Berner ; Mr. Kenneth Ridgway Crawshaw ; Mr. Geoffrey Crisp ; Mr. Roy Arthur French, B.Sc. ; Mr. Peter Graham ; Mr. Percy Rodriguez ; Mr. Parkash Lal Renjhen, M.Sc. ; Dr. Herbert H. Ross ; Mr. David Spencer Smith ; Mr. Hari Mohan Lal Srivastava, M.Sc. ; Mr. Norman Edward Stacey, B.Sc., A.R.I.C. ; Mr. Cecil Charles Tonsley ; Mr. Henry Robert Wallace, B.Sc.

For the second time (taken as read) : Professor Johan Wilhelm Geyer, D.Sc. ; Professor Elio Lucchese ; Mr. Har Kishanlal Sikka ; and Mr. Claude Sisley.

The Secretary read the names of the following newly elected Fellows of the Society : Mr. Snehamoy Chatterji, M.Sc., Entomology Division, Indian Agricultural Research Institute, New Delhi, 12, India ; Mr. David Franklin Crosby, Manor House Hotel, Leamington Spa, Warwickshire ; Mr. Denis William Ewer, University of Natal, Pietermaritzburg, S. Africa ; Dr. V. Prabhaker Rao, M.A., Assistant Director (Foreign Quarantines), Directorate of Plant Protection, Quarantines and Storage, Shah Jehan Road Hutments, New Delhi, India ; Major N. S. Vissian, Clarewood Ranch, P.O. Box 104, Selukwe, Southern Rhodesia.

In accordance with the Bye-laws, Chapter XXII, Paragraph 1, and Chapter XXV, Paragraph 1, the Secretary read for the second time the notice of a Special Meeting to be held in the Society's rooms on Wednesday, 5th November to consider and vote upon certain proposed alterations to the Bye-laws.

The proposed alterations having been circulated to Fellows (*Proc. R. ent. Soc. Lond.* (C) 17 : 35-36), they were taken as read.

Thanks were voted to donors of gifts to the Library since the last meeting.

Mr. R. D. Eady, Mr. V. F. Eastop, Mr. J. L. Messenger and Mr. G. Surtees signed the Obligation Book and were admitted Fellows of the Society.

The following paper, accepted for publication in the *Transactions*, was read in title :

“The genera of Cassidinae (Coleoptera : Chrysomelidae)”, by W. D. Hincks.

Mr. A. E. Gardner exhibited a female specimen of *Oxygastra curtisii* Dale (Odonata : Corduliidae) taken at Hurn, Hants., on 13th July, 1952, with a microscopical preparation of the second instar nymph and drawings of the second and third instar nymphs and labial masks.

He said that eggs deposited by this female on 13th July were kept at an average water temperature of 63° F. and hatched on 4th August. Seven minutes elapsed between the emergence of the pronymph (first instar) from the egg and the emergence of the free nymph (second instar). All nymphs reached the third instar by 7th September and the fourth instar by 27th September. Two reached the fifth instar by 29th September, and one nymph the sixth instar on 1st October. From the third instar onwards the water temperature was raised to 70° F. to prevent losses.

The observations showed that the first four instars of this species, as described and illustrated by Lt.-Col. F. C. Fraser, I.M.S. (1951, *Ent. mon. Mag.* 87 : 35-40), are in fact more advanced than stated.

Noteworthy differences were that in the true second instar nymph the antennae consist of three segments and not five, the tarsi are simple and the labial mask has the lateral lobes furnished with one and not two setae; the mental setae, described as two pairs, were absent. In the third instar there is no increase in the segmentation of the antennae or tarsi. The labial mask has one pair of setae on the mentum, the lateral lobes having their armature unchanged. At the fourth instar the antennae consist of five segments, the tarsi still consisting of one segment. The labial mask has each lateral lobe armed with two setae, the mental armature consisting of two pairs of two or three setae. This is the instar which most resembles the first as described by Lt.-Col. Fraser. Mr. Gardner had found this species very difficult to breed and to observe owing to its very hairy nature, which causes every speck of debris to be picked up. It was therefore easy to understand how Col. Fraser missed the first few instars.

Miss Longfield exhibited on behalf of the captor, Mr. W. Edwards Dyson, a male specimen of a new immigrant dragonfly, *Aeshna affinis* Van de Linden, taken for the first time in the British Isles on 5th August last, on Romney Marsh, Kent. No other specimens were seen and only two other *Aeshnas* (*A. grandis* L.) were seen in about 15 miles of marsh covered that day. The day was hot and hazy with a westerly wind. Miss Longfield added that only last summer one male *affinis* was taken in south Holland, where she was collecting with Dr. Lieftinck and others. That specimen was only the second known from so far north in Europe and the specimen exhibited was the third. It was a Mediterranean species, occurring on both north and south and from Portugal to Albania, extending east through south Russia and Turkey to Persia. It was found reaching north into Central France, where it was said to be quite common, strayed now and then into Switzerland, southern Germany and Hungary and occurred once or twice in Belgium in de Selys' time.

As it could be confused with *A. mixta* Latreille, the two species were shown together for comparison. Mr. Dyson had presented the specimen of *A. affinis* to the National Collection.

Dr. S. H. Skaife (a visitor) showed, and gave a commentary on, a coloured film made by himself, and entitled "The Black-Mound Termite of the Cape, *Amitermes atlanticus* Fuller," an abstract of which appeared on page 32.

A short discussion followed in which Professor Varley asked whether Dr. Skaife had investigated the feeding habits of termites and, if so, whether the fauna of the gut was the same in workers and queens. Dr. Skaife replied that in *A. atlanticus* protozoa were found only in the workers and the species occurring was found in only one other termite and that a Californian species.

Mr. C. R. Ribbands (a visitor), referring to Dr. Skaife's statement that there was no food reserve in the colony, enquired during what proportion of the year the termites fed and where the reserves were stored. Dr. Skaife replied that the food was stored in the gut and the termites fed only when conditions were wet: damp was, however, persistent in the soil most of the year.

Mr. Ribbands also suggested that, although Dr. Skaife had said that castes were determined by the workers, it might possibly be that in termites they were indirectly determined by the queens who, when active, produce an exudate which suppresses secondary queens.

Dr. Skaife replied that this theory had been advanced by Perkins in the United States, who suggested that so long as the queen was present the workers when licking her received in the exudata a hormone containing a sex-inhibiting property. This theory, however, remained to be proved.

In closing the meeting the President expressed the Society's thanks to Dr. Skaife for the opportunity of seeing this film of such unique interest.

E. B. BRITTON, *Honorary Secretary.*

The next meeting will be held on 3rd December, at 5.30 p.m.

ADDITIONS TO THE LIBRARY.

Presented.

- Beirne, Bryan P. *British Pyralid and Plume moths*. 8vo. London. 1952. [Wayside and Woodland Series.] [The Publishers.]
- Beirne, Bryan P. *The origin and history of the British fauna*. 8vo. London. 1952. [The Publishers.]
- Blackwelder, Richard E. The generic names of the beetle family Staphylinidae with an essay on genotypy. *Bull. U.S. nat. Mus.* **200**: pp. 483, 1952. [Smithsonian Institution.]
- Costa Lima, A. da. *Insetos do Brasil*. 7o tomo. *Coleópteros 1a parte*. 8vo. Rio de Janeiro. 1952. [The Author.]

- Evans, W. H. *A catalogue of the American Hesperiidæ indicating the classification and nomenclature adopted in the British Museum (Natural History). Part II.* 8vo. London. 1952. [The Trustees of the British Museum.]
- Forster, W., and Wohlfahrt, T. A. *Die Schmetterlinge Mitteleuropas. 1 Lieferung.* 4to. Stuttgart. 1952. [The Publishers.]
- Graham, Samuel Alexander. *Forest entomology.* 3rd ed. 8vo. London and New York. 1952. [The Publishers.]
- Lepesme, P., editor. *Longicornia. Études et notes sur les Longicornes. Vol. 2. Longicorn beetles of China.* By J. Linsley Gressitt. 8vo. Paris. 1952. [Dr. Lepesme.]
- Nevill, Lady Dorothy. *The Ailanthus silkworm and the Ailanthus tree.* Sm. 8vo. London. 1862. [Professor P. A. Buxton, C.M.G., F.R.S.]
- Savory, Theodore H. *The spider's web.* 8vo. London. 1952. [Way-side and Woodland Series.] [The Publishers.]
- Villiers, A. *Hémiptères de l'Afrique noire. (Punaises et cigales.)* 8vo. Dakar. 1952. [Initiations africaines IX.] [Mr. B. Jobling.]

Purchased.

- Berg, L. S. *Natural regions of the U.S.S.R.* Translated by O. A. Titelbaum. 8vo. New York. 1950.
- Hansen, V. *Biller XI. Sandspringere og løbebiller (Cicindelidae og Carabidae).* Sm. 8vo. København. 1941. [Danmarks Fauna 47.]
- Hansen, V. *Biller XII. Heteromerer.* Sm. 8vo. København. 1945. [Danmarks Fauna 50.]
- Hansen, V. *Biller XIII. Clavicornia 1 Del.* Sm. 8vo. København. 1950. [Danmarks Fauna 55.]
- Hudson, G. V. *New Zealand beetles and their larvae.* 8vo. Wellington. 1934.
- Wolcott, George N. The insects of Puerto Rico. *J. Agric. Univ. P.R.* 32 : pp. 975, 1948 [-51].

In addition, separates were presented by Plant Protection Limited; Mr. K. G. V. Smith; Dr. W. Roepke; The American Entomological Society; Smithsonian Institution; Mr. G. F. Burnett; Dr. P. Lepesme; The Rev. E. J. Pearce; Commonwealth Institute of Entomology; Mr. P. M. Miles; Captain T. Dannreuther, R.N.; Mr. H. M. Hallett; Professor P. A. Buxton, C.M.G., F.R.S.; Companhia de Diamantes de Angola; Mr. H. S. Leeson; Dr. Malcolm Burr; Miss D. J. Jackson; Dr. J. L. Cloudsley-Thompson; Colonel Niall MacNeill; Mr. B. Jobling; Mr. A. E. Gardner; Mr. M. Niblett; and Mr. F. J. Griffin.

NOTICES

In addition to the *Transactions and Proceedings* (Series A, B and C), the following publications are available on application at the Society's rooms :—

THE GENERIC NAMES OF BRITISH INSECTS, WITH CHECK LISTS OF THE SPECIES, prepared by the Committee on Generic Nomenclature of the Royal Entomological Society of London, with the assistance of the Department of Entomology of the British Museum (Natural History) :—

Part 1. Recommendations relating to the publication of the Committee's								Price	
	Reports	..	..	..	..	..	..	6d.	
"	2. Rhopalocera	..	..	..	..	..	..	3s. 6d.	
"	3. Odonata	..	..	..	..	..	..	3s. 6d.	
"	4. Neuroptera	..	..	..	..	..	..	3s. 6d.	
"	5. Hymenoptera Aculeata	..	..	..	..	..	..	15s. 0d.	
"	6. Coleoptera Carabidae	..	..	..	..	..	..	10s. 0d.	
"	7. Coleoptera Hydradephaga	..	..	..	..	..	..	5s. 0d.	
"	8. Hemiptera Heteroptera	..	..	..	..	..	..	39s. 0d.	
"	9. Coleoptera Staphylinidae	..	..	..	..	..	..	40s. 0d.	

HANDBOOKS FOR THE IDENTIFICATION OF BRITISH INSECTS.

The Society has undertaken the issue of a series of publications intended to provide illustrated Keys to the whole of the British Insect Fauna so far as this is possible.

It is proposed to cover this field in a series of ten volumes, arranged as follows :—

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| <p>I. Part 1. General Introduction.</p> <p style="padding-left: 20px;">" 2. Thysanura.</p> <p style="padding-left: 20px;">" 3. Protura.</p> <p style="padding-left: 20px;">" 4. Collembola.*</p> <p style="padding-left: 20px;">" 5. Dermaptera and Orthoptera.†</p> <p style="padding-left: 20px;">" 6. Plecoptera.†</p> <p style="padding-left: 20px;">" 7. Psocoptera.*</p> <p style="padding-left: 20px;">" 8. Anoplura.</p> <p>II. Hemiptera.*</p> <p>VI. Hymenoptera: Symphyta* and Aculeata.*</p> <p>VII. Hymenoptera: Ichneumonidae.*</p> <p>VIII. Hymenoptera: Cynipoidea, Chalcidoidea and Serphoidea.</p> <p>IX. Diptera: Nematocera† and Brachycera.</p> | <p>Part 9. Ephemeroptera.†</p> <p style="padding-left: 20px;">" 10. Odonata.†</p> <p style="padding-left: 20px;">" 11. Thysanoptera.*</p> <p style="padding-left: 20px;">" 12. Neuroptera.</p> <p style="padding-left: 20px;">" 13. Mecoptera.</p> <p style="padding-left: 20px;">" 14. Trichoptera.</p> <p style="padding-left: 20px;">" 15. Strepsiptera.</p> <p style="padding-left: 20px;">" 16. Siphonaptera.</p> <p>V. Coleoptera.*</p> <p>X. Diptera: Cyclorrhapha.*</p> |
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The following parts are now available :—

- Vol. I, Part 5. Dermaptera and Orthoptera. By W. D. Hincks. Price 3s. 6d. plus postage.
- Vol. I, Part 6. Plecoptera. By D. E. Kimmins. Price 3s. 6d. plus postage.
- Vol. I, Part 9. Ephemeroptera. By D. E. Kimmins. Price 3s. 6d. plus postage.
- Vol. I, Part 10. Odonata. By F. C. Fraser. Price 7s. 6d. plus postage.
- Vol. VI, Part 2a. Hymenoptera: Symphyta. By R. B. Benson. Price 10s. 6d. plus postage.
- Vol. IX, Part 1. Diptera: Introduction and Key to Families. By H. Oldroyd. Price 7s. 6d. plus postage.
- Vol. IX, Part 2. Diptera, Nematocera: Families TIPULIDAE to CHIRONOMIDAE. By R. L. Coe, Paul Freeman and P. F. Mattingly. Price 20s. 0d. plus postage.

Parts marked † are on sale or in the press, those marked * in preparation.

Orders for the complete series or for separate parts can be placed with the Registrar at the Society's rooms now, but prices can only be quoted for those parts already issued.

Fellows of the Society may purchase one copy at a discount of 25 per cent. ; additional copies at the full published price.

STYLOPS, a Journal of Taxonomic Entomology.

1932-1935. Vols. 1-4 (all issued). Price £1 16s. 0d. each; to Fellows £1 7s. 0d.

ABSTRACT OF PROCEEDINGS OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON. 1935. Nos. 1-6 (all issued). 3s. 0d.

HUBNER: A BIBLIOGRAPHICAL AND SYSTEMATIC ACCOUNT OF THE ENTOMOLOGICAL WORKS OF JACOB HUBNER AND THE SUPPLEMENTS THERETO. In 2 vols. By Francis Hemming. Price: Vol. 1. 605 pp. £1 15s. 0d.; Vol. 2. 275 pp. 15s. 0d.

THE HISTORY OF THE ENTOMOLOGICAL SOCIETY OF LONDON, 1833-1933. By S. A. Neave, assisted by F. J. Griffin. Price 10s. 6d.

SERIAL PUBLICATIONS IN THE LIBRARY OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON. 1951. Price 5s. 0d.

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